455/103

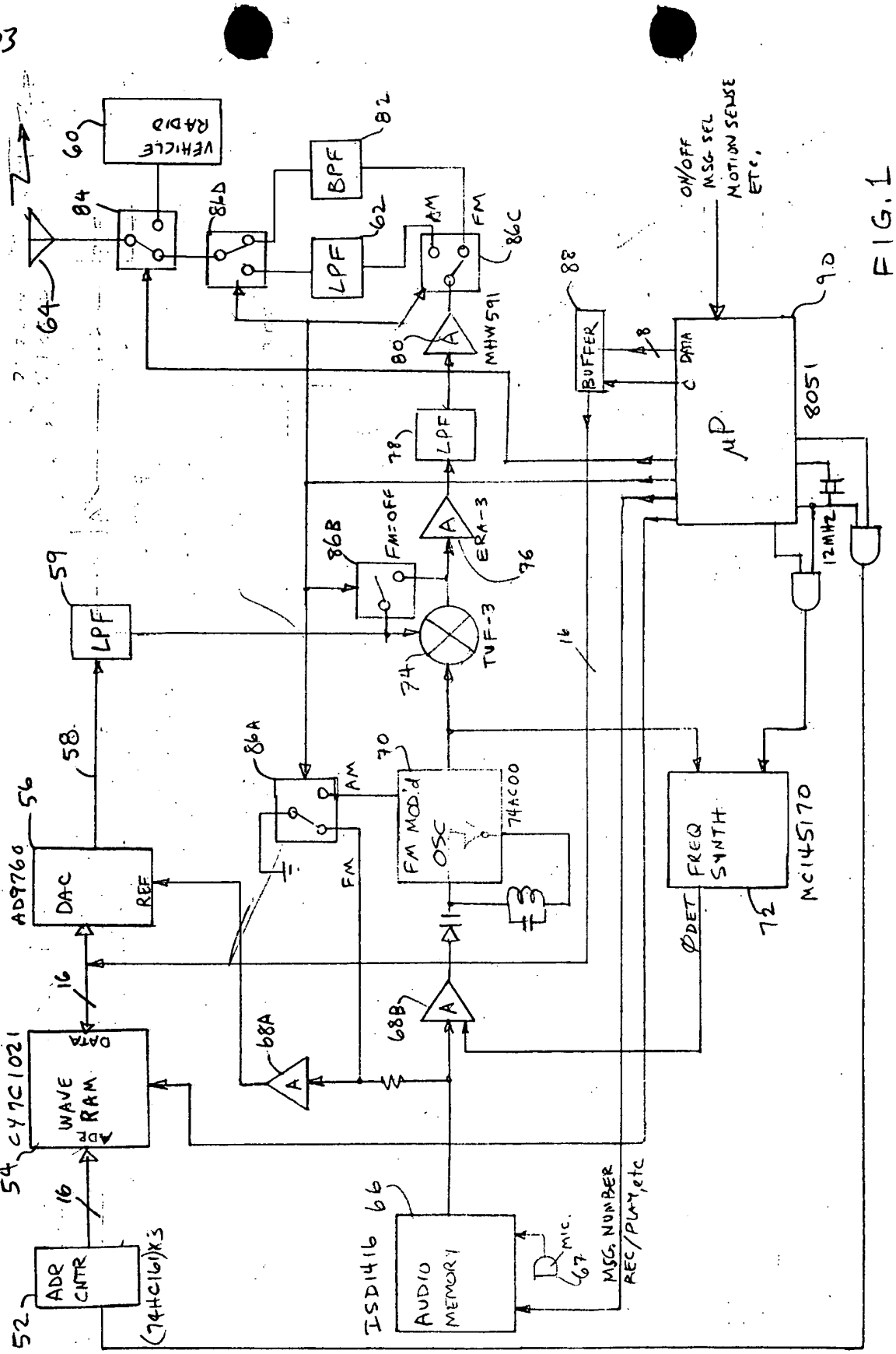
VEHICLE RADIO
60
84
64
84A
BPF
82
LPF
62
AM
FM
86C
MHW591
80
88
BUFFER
8
C DATA
ON/OFF
MSG SEL
MOTION SENSE
ETC.
90
8051
µP
78
LPF
ERA-3
76
86B
FM=OFF
12MHz
59
LPF
TUF-3
74
16
86A
AM
FM
70
FM MOD'd OSC
74AC00
58
56
AD9760
DAC
REF
16
54
CY7C1021
WAVE RAM
DATA
ADR
16
52
ADR CNTR
(74HC161)X3
68A
68B
ISD1416
66
AUDIO MEMORY
MIC.
67
MSG. NUMBER
REC/PLAY, etc
FREQ SYNTH
ØDET
72
MC145170

FIG. 1

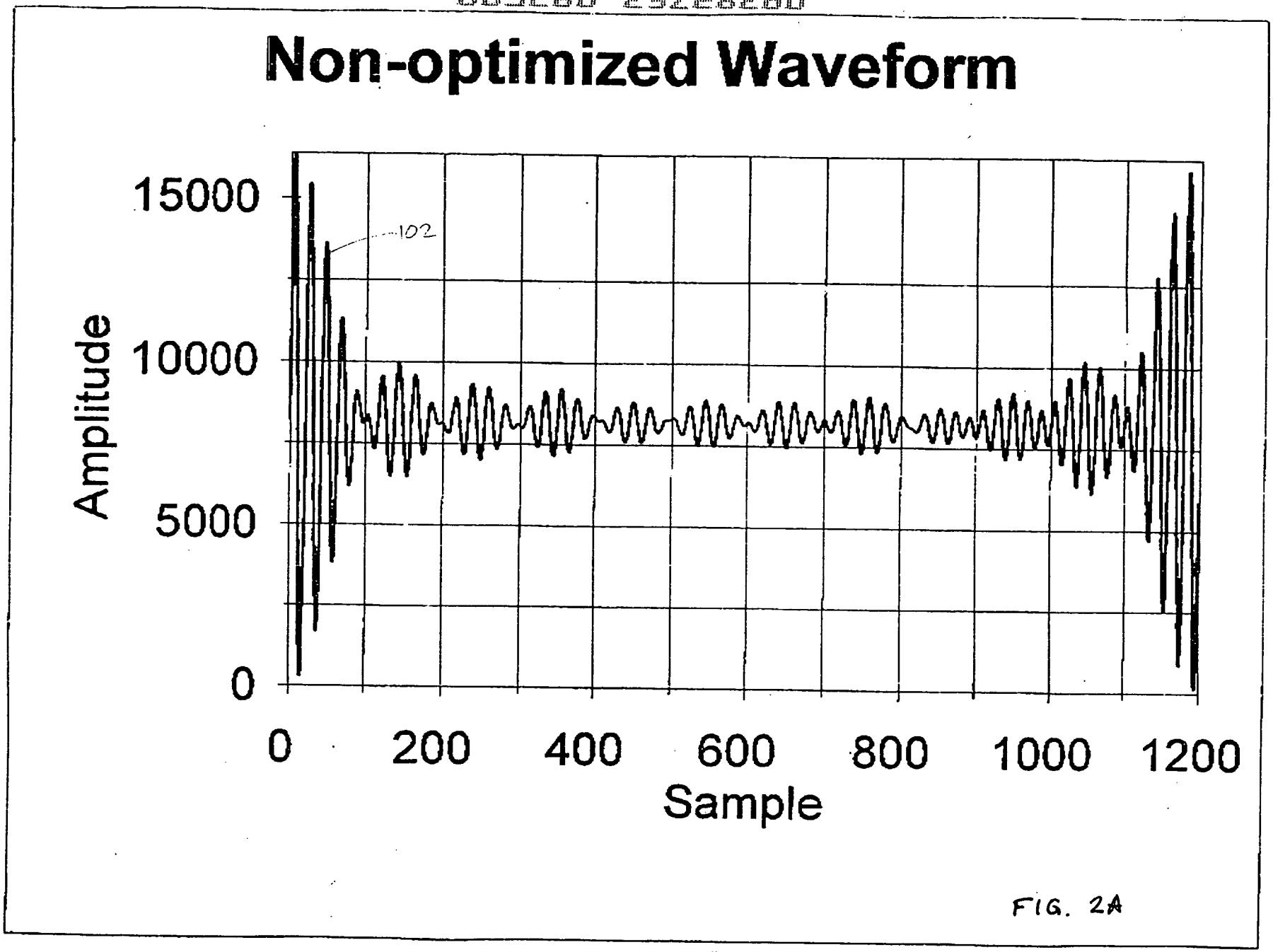
Non-optimized Waveform
Amplitude
15000
10000
5000
0
102
0
200
400
600
800
1000
1200
Sample

FIG. 2A

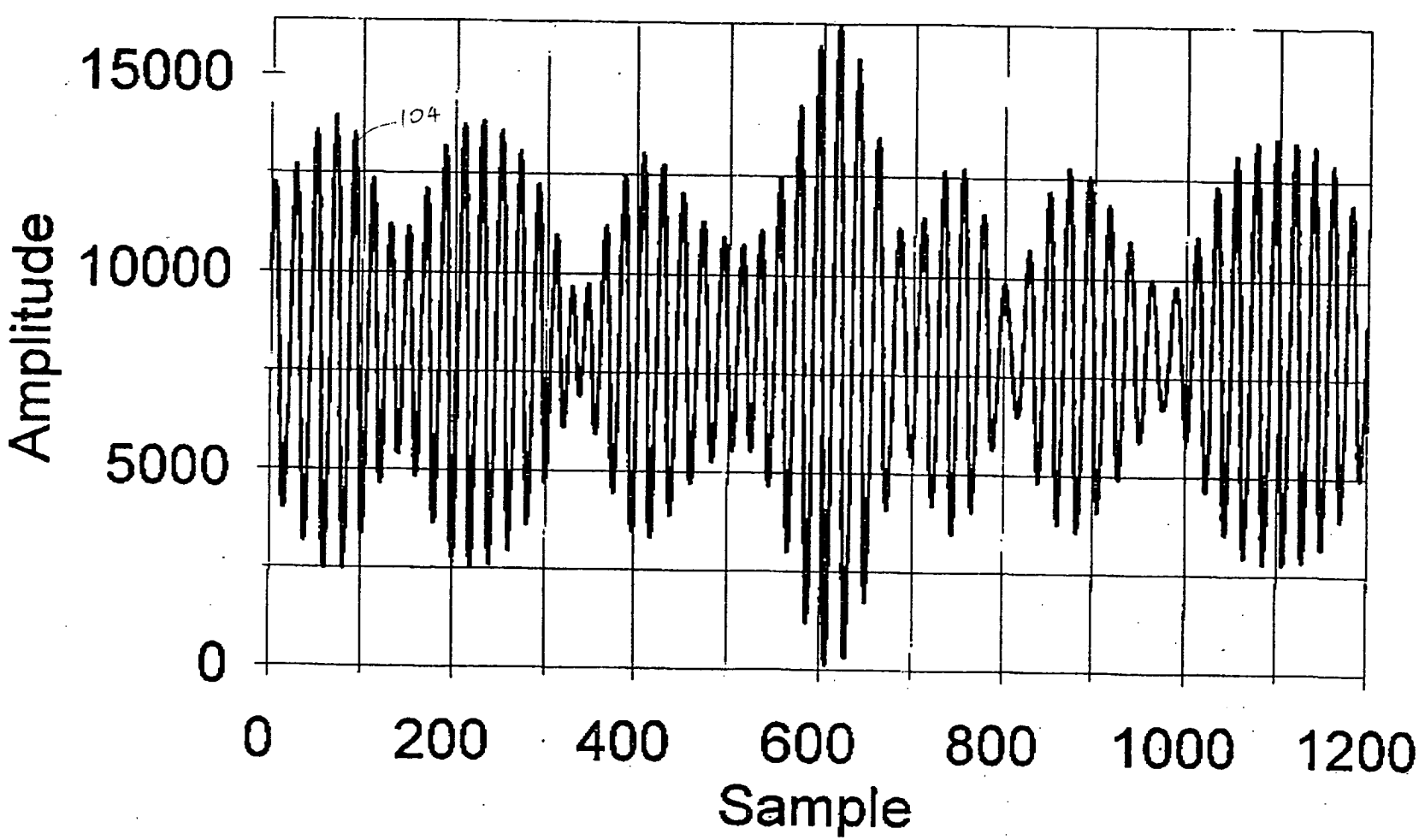
Optimized Waveform
15000
10000
5000
0
Amplitude
104
0
200
400
600
800
1000
1200
Sample

FIG. 2B

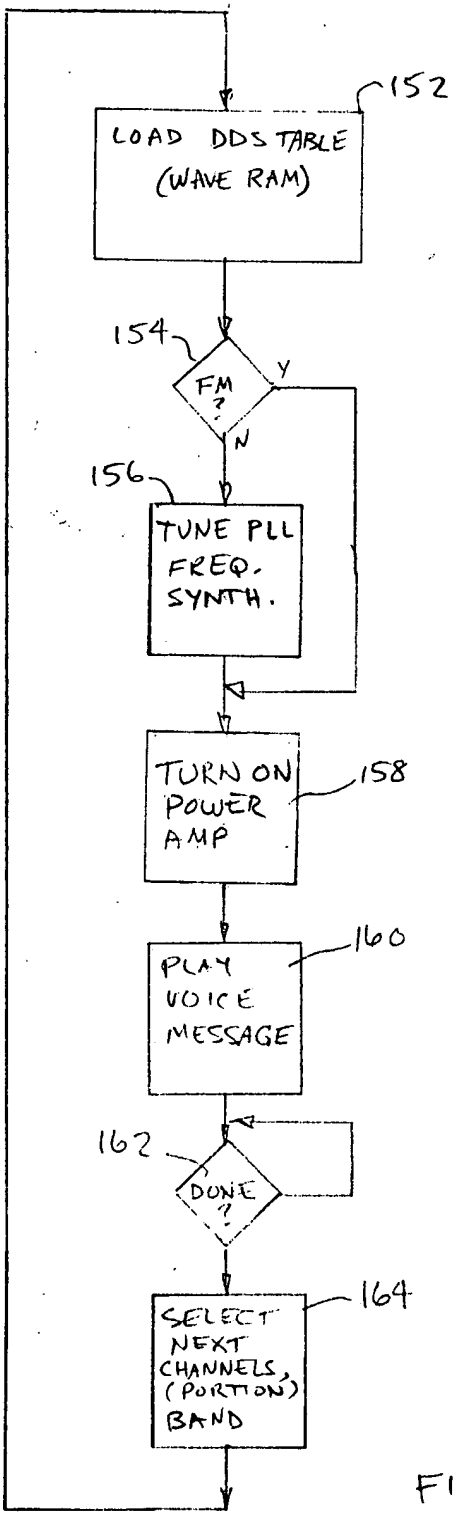
LOAD DDS TABLE (WAVE RAM)
152
154
FM ?
Y
N
156
TUNE PLL FREQ. SYNTH.
TURN ON POWER AMP
158
PLAY VOICE MESSAGE
160
162
DONE ?
SELECT NEXT CHANNELS, (PORTION) BAND
164

FIG.3